

HUNGARY/Chemical Technology - Electrochemical Industries,
Electroplating. Chemical Current Sources.

H.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54543

Author : Kishsh, Z^held
Inst : -
Title : The Life Expectancy of a Silver - Zinc Accumulator.

Orig Pub : Magyar kem. folyoirat, 1958, 64, No 1, 17-19

Abstract : The effect on the life span of a silver - zinc accumulator by the addition of impurities to a zinc electrode was investigated. Various amounts of Hg, Pb, Sn, Cl⁻, SO₄²⁻, and CO₃²⁻ were introduced into the active part of the zinc electrode. It was established that the smallest effect is caused by Hg, and the greatest effect by Pb. Anions have no effect.

Card 1/1

14

SA B 62 A

684. Residual Strain in a Cylinder. M. P. Zeldak. *Comptes Rendus (Doklady) de l'Acad. des Sciences, U.S.S.R.* 4, 6, pp. 250-253, 1934. In German.—The residual strain in a cylinder is investigated by means of X-ray diffraction and by the determination of elastic coefficients. J. T.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

CA

3A

Radiations of krypton⁸⁶. H. Zehls, B. H. Ketelle, and A. R. Brosi (Oak Ridge Natl. Lab., Oak Ridge, Tenn.). *Phys. Rev.* 79, 901-2(1950).—The β -distribution of Kr⁸⁶ is first forbidden. The max. β -energy is 695 \pm 5 e.kv. There is a 540 \pm 20 e.kv. γ -ray in coincidence with a 150 \pm 20 e.kv. β -ray; this coincidence represents (0.65 \pm 0.15) % of the disintegrations. G. M. Petty.

$\beta^+ - \beta^-$ disintegration in Br⁸⁰. B. S. Dzhelepov, N. M. Anton'eva, and S. A. Shestopalova (Leningrad State Univ.). *Doklady Akad. Nauk S.S.S.R.* 64, 399-12 (1949); cf. C.A. 40, 1288⁹; 43, 1563a, 8801c.—The apparatus described and the energy spectra obtained for electrons and positrons from Br⁸⁰ are shown. The ratio of areas under the curves gives the positron/electron ratio as (1.0 \pm 0.2) % (cf. Kurchatov and Latyshev, *J. Exptl. Theoret. Phys.* (U.S.S.R.) 5, 367(1945); Barber, C.A. 42, 1123c). The disintegration scheme proposed is: Br⁸⁰ with a half life of 4.4 hrs. emits a γ -ray; then with a half life of 18 min. 1.2% by K capture and 1% by positron emission (1.0 m.e.v.) give Se⁸⁰, and 97.8% by electron emission (2.2 m.e.v.) gives Kr⁸⁰. Worden Waring

ZIL'DES, L.

ZIL'DES, L.; ZARKHI, V.

Simplified method for mounting the radiator on a ZIS-150. Avt.
transp. 32 no.5:35 My '54. (MIRA 7:7)
(Automobiles--Radiators)

ZELENOHUK, Ye.V.; ZELINSKY, L.M.; KOROGODSKIY, M.V.; RUDNITSKIY, A.,
redaktor; VUYEK, M., tekhnicheskiiy redaktor.

[Prolonging the life of storage batteries] Uvelichenie sroka
sluzhby akkumulyatornykh batarei. Kiev, Gos. izd-vo tekhn. lit-ry
USSR, 1953. 78 p. [Microfilm] (MIRA 8:2)
(Storage batteries)

ZEL'LES, M. B.

Medical certification of worker disability; reference book. Moskva, Izd-vo Narkom-zdrava RSFSR, 1928. 168 P.

Cyr.4 HD775

ZEL'DES, M. B.

Problems of medical diagnosis; a study of medical examinations of workers. Moskva.
Gos. med. izd-vo 1929. 164 p.

Cyr.4 BQ48

1. The compressor of the gas turbine engine.

SOURCE: Mashinostroyeniye, no. 6, 1964, 97-99

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"APPROVED FOR RELEASE: 03/15/2001

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CIA-RDP86-00513R001964220008-9"

SINENKO, N.P., inzh.; ZEL'DES, N.L., inzh.; LEVKOVICH, S.L., inzh.

Finishing the turbocompressor for the D-70 engine. Mashinostroyeniye
no.2:100-102 Mr-Ap '65. (MIRA 18:6)

SHUBENKO-SHUBIN, Leonid Aleksandrovich; GERNER, David Mikhaylovich;
ZEL'DES, Natan Yakovlevich; INGUL'TSOV, Vilor L'vovich;
KOGAN, Vladimir Zel'manovich; POKRASSA, Moisey Iosifovich;
SOBOLEV, Sergey Petrovich; SUKHININ, Viktor Pavlovich;
TRZHETSINSKIY, Anatoliy Vitol'dovich; SHNEYDMAN, Avadiy
Yefimovich; PANSIN, B.M., retsenzent; NIKIFOROVA, R.A., inzh.,
red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Strength of steam-turbine elements] Prochnost' elementov paro-
vykh turbin. Pod red. L.A.Shubenko-Shubina. Moskva, Mashgiz,
1962. 567 p. (MIRA 16:2)

1. Chlen-korrespondent Akademii nauk Ukr.SSR (for Shubenko-Shubin).
(Steam turbines)

ZEL'DES, N.Ya., inzh.; SUKHININ, V.P., inzh.; SHOR, L.A., kand.fiziko-
matematicheskikh nauk

Initial bending of the working blades of steam turbines.
Energomashinostroenie 7 no.8:39-41 Ag '61. (MIRA 14:10)
(Steam turbines)

ZEL'DES, N.YA.

PHASE I BOOK EXPLOITATION

SOV/6341

Shubenko-Shubin, Leonid Aleksandrovich, Corresponding Member,
Academy of Sciences USSR, David Mikhaylovich Gerner, Natan
Yakovlevich Zel'des, Vilor L'vovich Ingul'tsov, Vladimir
Zel'manovich Kogan, Moisey Yosifovich Pokrassa, Sergey Petro-
vich Sobolev, Viktro Pavlovich Sukhinin, Anatoliy Vitol'dovich
Trzhetsinskiy, Avadiy Yefimovich Shneydman

Prochnost' elementov parovykh turbin (Strength of Steam Engine Parts).
Moscow, Mashgiz, 1962. 567 p. Errata slip inserted. 4000 copies
printed.

Reviewer: B. M. Panshin; Ed.: R. A. Nikiforova, Engineer; Tech. Ed.:
M. S. Gornostaypol'skaya; Chief Ed.: Mashgiz (Southern Dept.):
V. K. Serdyuk, Engineer.

PURPOSE: This book is intended for steam-turbine designers and service
and engineering personnel in the steam-turbine industry. It may
also be useful as a special textbook for teachers and students
specializing in the steam- and gas-turbine industry.

Card 1/4

Strength of Steam Engine Parts

SOV/6341

COVERAGE: This book contains material on the structural strength problems of all basic steam-turbine parts. Industrial methods of calculating turbine blades, disks, rotors, diaphragms, housings, etc., some described for the first time, are given. Metal strength and methods for its control are described in detail.

TABLE OF CONTENTS [Abridged]:

Foreword

3

PART I. METALS FOR THE PRINCIPAL PARTS OF
STEAM TURBINES AND PERMISSIBLE STRESSES

Ch. I. Fundamental Properties of Applicable Metals

5

Ch. II. Permissible Stresses

24

Card. 2/11

SOBOLEV, S.P., inzh.; SHNEYDMAN, A.Ye., kand.tekhn.nauk; ZEL'DES, N.Ya.,
inzh.; SUKHININ, V.P., inzh.; SHOR, L.A., inzh.

Experience in manufacturing blades for the last stage of a 150
mw turbogenerator [with summary in English]. Teploenergetika 6
no.3:26-29 Mr '59. (MIRA 12:4)

1. Khar'kovskiy turbinnyy zavod.
(Steam turbines—Blades)

SOV/96-59-3-5/21

AUTHORS: Sobolev, S.P., Engineer: Shneydman, A.Ye., Candidate of Technical Sciences: Zel'des, N.Ya., Engineer: Sukhinin, V.P., Engineer and Shor, I.A., Engineer

TITLE: Experience in Developing the Blading for the Last Stage of a 150-MW Turbine (Opyt sozdaniya lopatki posledney stupeni dlya turbiny moshchnost'yu 150 Mvt)

PERIODICAL: Teploenergetika, 1959, Nr 3, pp 26-29 (USSR)

ABSTRACT: For a long time the Khar'kov Turbine works has been developing last-stage blading for large turbines, leading, in 1956-7, to a rational series of designs. All the blades in the series are designed on common principles and are standardised as much as possible. Blades with an active length of 740 mm were installed in a 100-MW turbine that commenced operation in 1957. Blading for the last stage of the PVK-150, 150-MW turbine, illustrated in Fig.1 is designed for a speed of 3,000 rpm and has an active length of 780 mm. It is based on profile T3 recommended by the Central Boiler-Turbine Institute. The stationary nozzle vanes were of sheet steel. The main aerodynamic characteristics of the blade are tabulated. Successive

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SOV/96-59-3-5/21

Experience in Developing the Blading for the Last Stage of a
150-MW Turbine

stages in profiling of the blade are described. The blading was made of stainless chrome steel 1Kh13 and the stress levels conformed to its properties. The stress distribution over the length of the blade is plotted in Fig.2 and does not exceed $2,630 \text{ kg/cm}^2$. By means of resistance strain gauges, vibration studies were made on a special experimental wheel in a vacuum chamber. A considerable number of resonant frequencies in the blading were disclosed. The blading was then de-tuned to 300 c/s, leaving four types of oscillation which are described. Various constructions were studied in order to reduce these vibrations and finally two conventional hoops of stiffening "wire" were threaded through the blading in the usual manner. Actually the "wire" consisted of tubing with an external diameter of 15 mm and a wall thickness of 2 mm. Because of the high centrifugal forces side-entry blade attachment was adopted, using serrated roots of diminishing cross-section, with six steps in the "fir tree", as drawn in Fig.3. The method of assembling the blading in the wheel is described and

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SOV/96-59-3-5/21

Experience in Developing the Blading for the Last Stage of a
150-MW Turbine

illustrated photographically in Fig.4. The blades are made from forgings each weighing 35 kg. The method of manufacture is described and, despite the large size, no special difficulties arose. It is considered that it will be possible to make still larger blades. There are 4 figures and 1 table.

ASSOCIATION:Khar'kovskiy turbinnyy zavod (Khar'kov Turbine Works)

Card 3/3

2

Hydrate formation under conditions of electrolytic deposition of nickel. A. L. Arutyunyan and V. Ya. Zel'der (Inst. Nickel, Cobalt, and Tin Ind.). Zhur. Priklad. Khim. (J. Applied Chem.) 23, 717-23 (1950).--The pH of beginning observable hydroxide formation in the soln. was detd. by potentiometric titration at 50°, on a glass electrode, of previously acidified solns. with NaOH, or of basic solns. with acid; the end points, corresponding, resp., to 1st appearance and to disappearance of hydroxide (visually and by observation of the Tyndall cone), lie at the same pH. In pure solns. of NiSO₄, with Ni 10.0, 25.0, 39.0, and 61.0 g./l., the pH of beginning hydroxide pptn. was found to lie at 6.3, 5.9, 5.7, and 5.5, resp., irrespective of whether the titration was conducted slowly or rapidly, and irrespective of its direction. At const. Ni content, 41 g./l., addn. of Na₂SO₄ 20-80 g./l. had no effect on the position of the pH of hydroxide formation. On the other hand, addn. of NaCl lowers that pH; thus, with Ni (in the form of NiSO₄) 21 g./l., NaCl 0, 5, 20, 50 g./l., pH = 6.0, 5.7, 5.6, 5.5; Ni 21 g./l., Na₂SO₄ 40 g./l., NaCl 0, 5, 20, 50 g./l., pH = 5.9, 5.7, 5.5, 5.4. However, at a high Ni content, 51 g./l., NaCl 0-50 g./l. had no effect, pH = 5.6-5.5. Addn. of H₂BO₃ has a very strong effect both at low and at high NaCl contents. Thus, with Ni 20, Na₂SO₄ 40, NaCl 5 g./l., H₂BO₃ 0, 10, 20, 40 g./l., pH = 5.7, 5.0, 4.0, 3.9; with NaCl 50 g./l., H₂BO₃ 0, 10, 20, 40 g./l., pH = 5.6, 4.6, 4.2, 3.9. Higher temp. lowers the pH of beginning hydroxide pptn. Thus, with Na₂SO₄ 40, NaCl 5, H₂BO₃ 20 g./l., at 20, 50, and 70°, with Ni 21 g./l., pH = 5.2, 4.9, and 4.6; with Ni 40 g./l., pH = 5.0, 4.8, and 4.5; with Ni 61 g./l., pH = 4.8, 4.5, and 4.4. The effect of higher temp. is thus greater at lower Ni contents. N. Thon

CA

4

The formation of hydroxides during the electrolysis of
nickel. A. L. Rotinyan and Y. Ya. Zel'des. *J. Applied*
Chem. U.S.S.R. 23, 757-63 (1950) (Engl. translation). -
See *C.A.* 44, 8748a. R. M. S.

1952

CP

4

Hydroxide formation under conditions of electrolysis of nickel. A. L. Rotinyan and V. Ya. Zelyes, *Zhur. Priklad. Khim.* (J. Applied Chem.) 23, 1867-1870 (1950); cf. C.A. 44, 8748a. The beginning of formation of hydroxide in a Ni-plating bath of the compn. Ni 40.0, Na₂SO₄ 40, and NaCl 5 g./l., with various amts. of CuSO₄ (and in an analogous bath with H₂BO₃ 20 g./l.), at 50°, was investigated by electrometric titration with alkali on a glass electrode and by observation of the Tyndall cone. With only 0.004 g. Cu/l., the titration curve is not distinguishable from that of the pure Ni bath. With 0.06 and 0.19 g. Cu/l., the pH of beginning hydroxide formation is considerably lower than in the pure Ni bath. From Cu 0.60 g./l. upwards, the titration curves, after reaching the pH of begin-

ning hydroxide formation, pass through a max.; no further alkali of alkali Cu hydroxide is formed at a somewhat lower pH than initially. A similar max. was found also in Cu-rich Ni baths contg. H₂BO₃, but the pH of pptn. of Cu(OH)₂ is considerably lowered. With Fe(SO₄)₂ (0.008-1.0 g./l.) added to the Ni bath, the hydroxide Fe(OH)₃ remains in a colloidal state and is not coagulated until Ni(OH)₂ begins to ppt. With high contents of FeSO₄, a max. is observed on the titration curves, as with Cu, being possibly due to initial formation of very fine particles of hydroxide which adsorb H⁺ ions and release them as the particles become increasingly coarser. Another possible explanation is initial formation of less-basic colloidal particles which then change into more-basic micelles. N. Thon

CA

7

Hydroxide formation under conditions of electrolysis of
nickel. A. L. Rotinyan and V. Ya. Zel'des, *J. Applied*
Chem. U.S.S.R. 23, 991-5 (1960) (Engl. translation).—See
C.A. 46, 60134. B. R.

ZEL'DES, V. Ya.

USSE/Chemistry - Electrolytic Refining of Metals Jun 51

"Hydrate Formation of Ni Electrolysis," A. L. Potinyan, V. Ya. Zel'des, Inst Nickel, Cobalt, and Tin Ind.

"Zhur Prikl Khim" Vol XXIV, No 6, pp 604-609

Detd pH values corr to the start of colloidal Ni hydrate formation in sulfate, chloride and nitrate solns by potentiometric titration with glass electrodes and by means of Tyndall cone. In nitrate and chloride solns the pH values are same. Pptn of hydrates in sulfate solns starts in more alk

183748

USSR/Chemistry - Electrolytic Refining of Metals (Contd) Jun 51

medium. H_3BO_3 lowers pH of the start of hydrate formation more sharply in chloride and nitrate than in sulfate solns. $(NH_4)_2SO_4$ lowers pH more than H_3BO_3 in sulfate solns. Effect of both buffers in chloride and nitrate solns is same. Increased hardness of cathodic deposits obtained from solns with addn of $(NH_4)_2SO_4$ under customary electrolysis conditions appears to be detd by large quantity of Ni hydrates in layer near cathode. Under conditions of Ni electrolysis, formation of colloidal metal hydrates is more likely than formation of basic metal compds.

183748

Zel'des, V. Ya.
USSR/ Chemistry - Physical chemistry

Card 1/1 Pub. 147 - 12/26

Authors : Rotinyan, A. L.; Zel'des, V. Ya.; Ioffe, E. Sh.; and Kozich, E. S.

Title : Potential of Ni deposition and the theory of the retarded ion discharge

Periodical : Zhur. fiz. khim. 28/1, 73-80, Jan 1954

Abstract : The polarization curves for Ni-deposition were measured and the cathode discharges along the metal were determined as a function of pH at different NaCl concentrations in the electrolyte. The potentials originating as result of NaCl addition to the solution were calculated by means of two separate methods. The effect of the Ni-ion activity in the electrolyte on the potential of Ni-deposition is explained. The results obtained were compared with the theory of the retarded discharge and found in perfect agreement with it. Twenty-four references : 21-USSR; 1-USA and 2-German (1916-1952). Table; graphs.

Institution :

Submitted : March 5, 1953

ZEL'DES, V. Ya., CHERNOBROV, S. M. and GORELIK, Ye. M.

"The Exchange of Nickel Ions at Cationites," an article included in the book
"The Theory and Practice of the Application of Ion-Exchange Agents," edited by
K. V. Chmukov and Published by the AS USSR, 1955, 164 pp.

ROTINYAN, A.L.; ZEL'DES, V.Ya.; SHOSHINA, I.A.

Carbon in electrolytic nickel. Zhur.prikl.khim. 35 no.7:1542-
1546 J1 '62. (MIRA 15:8)
(Nickel plating) (Carbon--Analysis)

Handwritten: ZIL 100, V. 10

JPRS: L-974-3
 CSO: 1743-M

U/L-1

THEORY AND PRACTICE OF THE APPLICATION OF ION-

EXCHANGE MATERIALS

Teoriya i Praktika Primeneniya
 Ionobmennykh Materialov, Moscow,
 1955, pp 1-184.

K. V. Chumtsov

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ZEL'DEVICH, Yakov Borisovich; MYSHKIS, Anatoliy Dmitriyevich;
KEPPEN, I.V., red.; BITYUTSKOV, V.I., red.

[Elements of applied mathematics] Elementy prikladnoi
matematiki. Moskva, Nauka, 1965. 615 p.
(MIRA 19:1)

MAKRYEVA, A.P.; POZIN, A.A.; YEGANOVA, Ye.S.; RAKSHT, O.V.; ZEL'DICH, E.I.

Utilization of SKP rubber for the manufacture of rubber footwear.
Kauch. i rez. 17 no.9:25-27 S '58. (MIRA 11:10)

1. Zavod "Krasnyy bogatyr" i Nauchno-issledovatel'skiy institut
rezinovykh i lateksnykh izdeliy.
(Boots and shoes, Rubber)

SOV/138-58-9-7/11
AUTHORS: Makeyeva, A. B; Pozin, A. A; Yeganova, Ye. S; Baksht, O. V.
~~Zel'dich, E. I.~~

TITLE: Possibility of Using SKP Rubber for Manufacturing Rubber Boots (O vozmozhnosti primeneniya kauchuka SKP dlya izgotovleniya rezinovoy obuvi)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 9, pp 25 - 27 (USSR)

ABSTRACT: The output of rubber shoes is to be increased three to four times by the end of 1965 according to the directives of the May Conference of the Central Committee of the KPSS. The authors tested the properties of standard SKP mixtures containing atomised carbon black and mixtures and compositions prepared under laboratory and industrial conditions in the factory "Krasnyy bogatyr". The composition of the two mixtures is given. The plasticity of standard mixtures containing channel black practically did not change after heating for 90 minutes (Fig.1). Mixtures containing atomised carbon black showed considerable lower plasticity after heating for 40 - 50 minutes. SKP mixtures prepared under industrial conditions could not be tested because they show great tendency to scorching. This disappeared when 2 - 3% of

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SOV/138-58-9..7/11
Possibility of Using SKP Rubber for Manufacturing Rubber Boots

zinc benzoate was added to the mixtures (Figs. 2 - 3). The addition of this substance does not affect the properties of the vulcanisates (Tables 1 and 2). Properties of vulcanisates made from SKP and SKB rubber are compared (Tables 2 - 4). The physico-mechanical characteristics of boots made from SKP rubber, when zinc benzoate was added, were slightly better than those made from SKB rubber. There are 4 Tables, 3 Figures and 3 Soviet References.

ASSOCIATION: Zavod "Krasnyy bogatyr" i Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy ("Krasnyy bogatyr" Factory and the Scientific Institute for Rubber and Latex Articles)

Card 2/2

PESCHANSKAYA, R.Ya.; EYDEL'NANT, N.L.; ZEL'DICH, E.I.; KRASOVSKAYA, A.M.

Diatomite and its use in the formulas for rubber footwear. *Kauch.*
i rez. 24, no.5:20-22 My '65. (MIRA 18:9)

1. Nauchno-issledovatel'skiy institut rezinovykh i lateknykh
izdeliy.

L 3381-66 EWT(m)/EWP(j)/T RM

ACCESSION NR: AP5022093

UR/0138/65/000/008/0042/0044

44 678.06:685.314.33.002.2 44

AUTHOR: Tokareva, T. Ye.; Snitsarenko, L. G.; Volkova, N. A.; Baksht, O. V.;
Zel'dich, E. I.; Kheyfets, F. M. 44

TITLE: Compounding and technology for manufacturing winter-proof boots 50
46
B

SOURCE: Kauchuk i rezina, no. 8, 1965, 42-44

TOPIC TAGS: rubber chemical, antifreeze, synthetic material, butadiene styrene rubber, filler, plasticizer, thermoelasticity, special purpose clothing, 44
rubber/SKMS-10 rubber

ABSTRACT: Formulations and technology for making frost-resistant boots which retained their elasticity at -50C were worked out and introduced commercially. Formulations for all parts except the tricot-backed boot tops were based on frost resistant rubber SKMS-10, and natural rubber was used in formulation for fabric application. The antifreeze effectiveness of dibutylphthalate, dibutylsebacinate, MVP oil, "plasticizer" oil and transformer oil was evaluated. The first two compounds gave the best frost-resistance at -50 C, and formulations containing dibutylphthalate had the greatest resistance to aging and became brittle below

Card 1/2

L 3381-66

ACCESSION NR: AP5022093

-65C. Different types of carbon black had little effect on frost-resistance. Manufacturing technology for making frost-resistant regular and fisherman's boots is analogous to that for making ordinary molded boots. Orig. art. has: 2 tables

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy (Scientific Research Institute for Rubber and Latex Products); Zavod "Krasnyy bogatyr" (Krasnyy Bogatyr Plant)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, IE

NR REF SOV: 005

OTHER: 000

Card 2/2

EXCERPTA MEDICA Sec 7 Vol.12/6 Pediatrics June 58

1711. REMOTE RESULTS OF TREATMENT OF RHEUMATISM IN CHILDREN
(Russian text) - Zeldich L. E. - TRUD. II SEZDA VRAC. - PEDIAT.
USSR 1956 (278-282)

Follow-up data confirm the necessity for inclusion of antibiotics, blood transfusion, fresh air therapy and physiotherapeutic exercises, in addition to salicylates and pyramidon. They reconfirm the importance of diet in the active and non-active phases of the disease, as well as of close out-patient supervision. There were more relapses after treatment with salicylates and pyramidon alone, than when they were combined with antibiotics. Patients with heart disease following repeated relapses can, under proper regime and training, recover their full capacity for work. Tonsillectomy is more effective when carried out at an early, or latent, stage of the disease, than after a series of relapses. Special attention should be paid to rheumatic children of preschool age in order to provide them with sanatorial treatment. (S)

ZEL'DICH, L. Ye. SHTeyNBERG, T. A. and GUTNITSKAYA, F. M.

Zel'dich, L. Ye., Shteynberg, T. A. and Gutnitskaya, P. M. "Treating dystrophy in children with 'aminostimulin'", Vracheb. delo, 1949, No. 5, paragraphs 425-30.

SO; U-4630, 16 Sept. 53, (Ietopis 'Zhurnal 'nykh Statey, No. 23, 1949).

ZEL'DICH, L.Ye., Doc Med Sci - - (diss) "Peculiarities of
the course of rheumatism in children. Data for ^{the} clinic and
pathogenesis." Kiev, 1959, 19 pp (Kiev Order of Labor ^{Red}
Banner Med Inst im Academician A.A. Bogomolets) 300 copies
(KL, 33-59, 120)

ZEL'DICH, L. ¹²

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Biological Chemistry

Changes of capillary permeability in children with rheumatism. L. B. Zel'dich (A. A. Bogomolets Med. Inst., Kiev). *Pediatrya* 1953, No. 2, 41-4. —Change in the direction of greater capillary permeability in juvenile rheumatism is observed from an examn. of the protein fractions and the extent of protein penetration in a capillary filtrate. The total protein remains approx. normal, but in the majority of cases the albumin-globulin ratio declines. With improvement, the patients display a reversal of this trend, with corresponding increase of the albumin fraction.

G. M. Kosolapoff

Dept. of Hospital
Pediatrics,

ZEL'DICH, L.Ye. [Zel'dych, L.IE.], dots.

Changes in the electrocardiogram of children with rheumatic fever.
Ped., akush. i gin. 19 no.6:17-22 '57. (MIRA 13:1)

1. Kafedra gospiatal'noy pediatrii (zav. - chlen-korrespondent AMN
SSSR prof. O.M. Khokhlov) Kiyevskogo ordena Trudovogo Krasnogo Zna-
meni meditsinskogo instituta im. akad. A.A. Bogomol'tsa (dir. - dots.
I.P. Alekseyenko) na baze bol'nitsy im. Kalinina (glavnyy vrach -
V.O. Udintseva).

(RHEUMATIC FEVER)

(ELECTROCARDIOGRAPHY)

TSEKHANOVSKIY, A. I., BEKESHOV, S. P., ZEL'DICH, P. N.

Lumbering

Hauling lumber by means of a windlass with perpetual cable. Les. prom., 12, no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress
March 1952. UNCLASSIFIED.

ZEL'DICH, Yu.V.

Overload protection of electric meters by means of silicon
diodes. Izv. tekhn. no.9:41-42 S '64. (MIRA 18:3)

MENDEL'SON, V.S.; GEKHTMAN, G.A.; KHRIZMAN, M.G.; ZEL'DIN, A.I.

Using spraying techniques in applying protective coatings.
Mashinostroenie no.2:69-76 Mr-Ap '62. (MIRA 15:4)

1. Kiyevskiy zavod trgovogo mashinostroyeniya.
(Plastic spraying)

ZEL'DIN, B., inzh.

Using two-level cranes in assembling cement plants. Stroi. mat.
2 no.10:28 0 '56. (MIRA 12:3)

(Cranes, derricks, etc.)

SHPAKHLER, A.G.; AKSEL'ROD, E.I.; KOTKIN, A.M.; SOLOV'YEV, A.V.; ZEL'DIN, B.B.

Improving the manufacture technology in coal briquet plants.
Ugol' Ukr. 6 no.2:17-19 F '62. (MIRA 15:2)

1. Dnepropetrovskiy gornyy institut (for Shpakhler, Aksel'rod).
2. UkrNIIUgleobogashcheniye (for Kotkin, Solov'yev). 3.
- Donetskkiproshakht (for Zel'din).
(Briquets (Fuel))

ZEL'DIN, B.B.

807/68-99-9-13/22

AUTHORS: Tsarev, M.K.; Spabler, A.G.; Korchagin, L.V.; Fluzhnik, Y.L.; Zel'din, B.B. and Bil'shteyn, B.M.

TITLE: Utilization of Pitch and Pitch Distillates as Binders for Briquetting Coal Finest.

PERIODICAL: Koks i Khimiya, 1959, No 9, pp 45 - 49 (USSR)

ABSTRACT: Binding properties of pitches from various works and the application of pitch distillates as binders in briquetting coal fines were investigated. It was established that the binding properties of pitches from various works (prop- erties, Table 1) differ considerably in crushing strength. of pitches were correlated with the quality of the pitch. It was found that the crushing strength of pitch with increasing crushing strength of pitch in briquetting improves. The crushing strength of pitch depends on the content of physico-chemical properties of carbon disulfide residues. The composition of coaling heads pitches depends mainly on the composition of coaling heads and tar distillation conditions. Pitch produced from a blend containing an increased proportion of lamella and contain more carbon disulfide insoluble residues and poorer binding properties. Pitch produced by batch dis- tillation possesses lower mechanical strength and poorer

Card 1/3

binding properties than those produced on continuous distillation plants. Liquid pitch distillates cannot be used directly as binders (due to their low viscosity). Additions of 20 - 30% of pitch distillates to pitch increases the quality of the briquettes due to a decrease in the melting temperature of pitch and a more uniform coating of coal grains. Preparation of water emulsion from mixtures of pitch and liquid pitch distillate (Table 4) and its application as a binder improves the quality of the briquettes and decreases the consumption of pitch. The addition of liquid pitch distillate with air transfers its nature to a water emulsion. The temperature of the product is obtained, softening temperature about 60°C. The product is obtained in a proportion of 8 - 12% (of total) and is used in a proportion of 8 - 12% (of total) to replace pitch. Water emulsion can be produced from the oxidation product which then applied as a binder improves the quality of the briquettes. Additions of pitch distillate to the coal permits decreasing the prop- ortion of binder (pitch) by 10 - 12% (Table 7).

Card 2/3

ASSOCIATIONS: Stalinskiy sovmarkhoz (Stalino Sovmarkhoz) (Name); Dnepropetrovskiy gosny institut (Dnepropetrovsk Minin. Institute); (Spabler, Korchagin, Fluzhnik, Bil'shteyn); Koksizhaya khimiya (Koksizhaya Khimiya) (Zel'din, Bil'shteyn)

Card 3/3

ZEL'DIN, B.B., inzh.; YEFIMOV, V.I., inzh.

Three-dimensional designs. Shakht.stroi. 7 no.5:25-26 My '63.
(KIRA 17:4)

1. Dongiproshakht.

BLAGOV, I.S.; KOTKIN, A.M.; SHPAKHLER, A.G.; ZEL'DIN, B.B.

Briquetting of coal fines by using heavy coal-tar for binder. Ugol' 28
no.8:40-42 Ag '53. (MLRA 6:7)

1. Trest Ugleobogashcheniye (for Blagov).
2. Yuzhnaya inspektsiya Glav-
- koksa (for Kotkin).
3. Dnepropetrovskiy gornyy institut (for Shpakler).
4. Mospinskiy briketnyy kombinat (for Zel'din). (Briqeta (Fuel))

ZEL'DIN, Boris Borisovich; MARGOLIN, V.A., redaktor; SVIRIDOVA, F.A.,
redaktor; MADERSKAYA, A.A., tekhnicheskiiy redaktor.

[Technical control in a factory producing coal briquets] Tekhni-
cheshkii kontrol' na uglebriketnoi fabrike. Moskva, Ugletekhizdat,
1955. 39 p. (MLRA 8:11)
(Briquets (Fuel))

ZEL'DIN, O.S.

Treatment of erysipeloid with synthomycin. Vrach.delo no.5: 521 My '60.
(MIRA 13:11)

1. Kozhno-venerologicheskoy dispensar Oblastnoy klinicheskoy
bol'nitsy imeni Mechnikova, Dnepropetrovsk.
(CHLOROMYCETIN)
(ERYSIPELOID)

USSR / Pharmacology, Toxicology: Chemo-Therapeutic Preparations. V
Antibiotics.

Abstr Jour : Ref Zhur - Biologiya, No 6, 1959, No. 27925

Author : Zel'din, G. S.

Inat : Dnepropetrovsk Regional Clinical Hospital imeni I. I.
Mechnikov

Title : Experimental Treatment of Erysipelas With Synthomycin

Orig Pub : Sb. nauchn. rabot Dnepropetr. obl. klinich. bol'nitsa
im. I. I. Mechnikova, 1958, No 2, 369-370

Abstract : No abstract given

Card 1/1

ZEL'DIN, G.S. (Dnepropetrovsk)

Case of herpes zoster following X-ray irradiation. Vrach.delo
no.8:142 Ag '62. (MIRA 15:11)

1. Kozhno-venerologicheskii dispanser 24-y gorodskoy bol'nitsy,
Dnepropetrovsk.

(HERPES ZOSTER)
(X RAYS---PHYSIOLOGICAL EFFECT)

KOGON, G.Kh.; ZEL'DIN, G.S.

Folic acid in the treatment of psoriasis. Vest. dermat. i ven. 34
no. 7: 58-60 '60. (MIRA 13:12)
(PSORIASIS) (FOLIC ACID)

KOGON, G.Kh.; PROGOPOPOV, N.I.; ZEL'DIN, G.S.; TYTAR', G.M.

Efficacy of tonsillectomy in patients with chronic tonsillitis and psoriasis. Vest.derm.i ven. 34 no.8:52-55 '60. (MIRA 13:11)

1. Iz klinicheskogo otdeleniya bolezney ukha, nosa i gorla (zav. G.M. Tytar') i kozhno-venerologicheskogo dispansera (zav. G.Kh. Kogon) Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni I.I. Makhnikova (glavnyy vrach F.A. Lyubin, nauchnyy rukovoditel' - zasluzhennyy deyatel' nauk USSR prof. L.A. Lukovskiy).
(PSORIASIS) (TONSILS---DISEASES)

ZEL'DIN, G. S.

Seasonal nature of psoriasis. Vest. dermat. i ven. no. 4:32-38 '62.
(MIRA 15:4)

1. Iz kozhno-venerologicheskogo dispansera Dnepropetrovskoy
gorodskoy bol'nitsy No. 24 (glavnyy vrach V. N. Agafonov,
nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. P. V.
Kozhevnikov).

(PSORIASIS) (PERIODICITY)

ZEL'DIN, G.S. (Dnepropetrovsk)

Care of the hair. Med. sestra 22 no.8:57-59 Ag'63. (MIRA 16:10)
(HAIR--CARE AND HYGIENE)

ZEL'DIN, G.S.

Treatment of multiform exudative erythema with biomycin. Sov. med.
25 no.9:137 S '61. (MIRA 15:1)

1. Iz Kozhno-venerologicheskogo dispansera 24-y Gorodskoy bol'nitsy
Dnepropetrovsk (glavnyy vrach V.N. Agafonov).
(ERYTHEMA) (AUREOMYCIN)

ZEL'DIN, G.S. (Dnepropetrovsk)

Skin hygiene. Med. sestra 21 no.2:53-55 P 162. (MIRA 15:3)
(SKIN—CARE AND HYGIENE)

ZEL'DIN, G.S., vrach (Dnepropetrovsk)

Role of vitamins in the treatment of skin diseases. Med. sestra 21
no.4:28-31 Ap '62. (MIRA 15:4)

(VITAMINS)

(SKIN--DISEASES)

ZEL'DIN, G.S. (Dnepropetrovsk)

Collagen diseases. Fel'd. i akush. 27 no.3:11-15 M. '62.

(MIRA 15:4)

(COLLAGEN DISEASES)

ZEL'DIN, G.S.

Treatment of herpes zoster with levomycetin. *Sci. med.* 24, no. 2:140
F '60. (MIRA 14:2)

1. Iz kozhno-venereologicheskogo dispansera Dnepropetrovskoy oblastnoy
bol'nitsy imeni Mechnikova (glavnyy vrach F.A. Lyubin).
(HEPRES ZOSTER) (CHLOROMYCETIN)

ZEL'DIN, G.S. (Dnepropetrovsk)

Adrenocorticotrophic hormone and cortisone in the treatment of skin diseases. Fel'd i akush. 25 no. 10:13-14 0 '60. (MIRA 13:10)
(ACTH) (CORTISONE) (SKIN—DISEASES)

ZEL'DIN, G. S., ordinator

Case of late reinduration. Vest.ven. i derm. no.2:56 Mr-Apr '55
(MLRA 8:5)

1. Iz Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy.
(SYPHILIS)

ZEL'DIN, K.A., inzh.

Group-type fuel oil and gas valves. Energetik 10 no.11:19-21
N '62. (MIRA 15:12)
(Boilers)

NEMCHIKOVA, Zoya Mikhaylovna; ZEL'DIN, Lev Avseyevich; FRIDLYAND, Mikhail Matveyevich; KHALTUNEN, Viktor Vasil'yevich [deceased]; IL'INSKIY, A.I., red.; OTOCHEVA, M.A., red. izd-va; SALAZKOV, N.P., tekhn. red.

[Technical norms, estimates and accounting in city electric transportation] Tekhnicheskoe normirovanie, smety i uchety na gorodskom elektricheskoy transporte. Pod obshchey red. Z.M. Nemchikovo. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1962. 203 p. (MIRA 16:6)

(Street railways--Production standards)

(Street railways--Accounting)

ZEL'DIN, L.M.

~~The SPK-5~~ glass-spinning unit. Biol.tekh.-ekon.inform.
no.5:54-55 '59. (MIRA 12:8)
(Glass fibers)

24242
S/193/61/000/006/002/007
A004/A104

15-8450
15-2125

AUTHOR: Zel'din, L. M.

TITLE: KCB-100-M2 (KSV-100-I2) conveyor for the processing of glass fiber

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 6, 1961, 17-18

TEXT: The KSV-100-I2 conveyor, developed by the spetsial'noye konstruktorsko-tekhnologicheskoye byuro mashin khimicheskikh volokon (Special Technological Designing Bureau of Chemical Fiber Machines) (SKTB MKhV), has been manufactured by the Leningradskiy mashinostroitel'nyy zavod upravleniya mashinostroyeniya (Leningrad Machine Building Plant of the Mechanical Engineering Administration) (Lenmashzavod) and is intended for the processing of staple glass fiber into heat insulating mats and plates. Big-lot production of these conveyers was started in 1960. The new conveyor is based on the same operation principle and design as the KSV-100-I model (Byulleten' tekhniko-ekonomicheskoy informatsii, 1959, no. 7, 48). The following technical data are given: output per year - not less than 20,000 m³; linear mat speed - 0.45 - 3 m/min; dimensions of mats and plates being produced: width - 500 and 1,000 mm, length - 1,000 and 2,000 mm; product thickness - 20-60 mm; length of assembly - 31,300 mm; weight -

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2h2h2

S/193/61/000/006/002/007 .
A004/A104

KCB-100-1/2 (KSV-100-I2) conveyer ...

about 25 tons. Compared to the KSV-100-I conveyer the new model possesses a number of advantages: the drying and polymerization chamber length was increased from 10 to 15 m; a new load installation increasing the stress on the product made it possible to raise the mat density from 80 kg/m³ to 120 kg/m³, which made the capacity of the assembly rise by a factor of 1.5. The shears being replaced by disk cutters and a photocell system increased the mat cutting quality and accuracy.

Card 2/2

ZEL'DIN, L.M.

Studying the mechanism of a high-speed take-up of the synthetic fiber tow by the coiler can with a large diameter. Izv. vys. ucheb. zav.; tekhn. teks. prom. no.6:137-144 '65.

(MIRA 19:1)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti im. S.M. Kirova.

13

M

Die-Casting at the "Injecta" Works in Switzerland. M. A. Zeldin.
(*Litinoe Delo (Foundry Practice)*, 1936, (3), 29-32).—[In Russian.] The die-
casting process at the "Injecta" works in Switzerland is described.—N. A.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

STONY BOWLING
HELLY ONE GUY 111

ZEL'DIN, M.Z.

Central Research Institute of Building Design. Izv.ASiA 4
no.1:132-134 '62. (MIRA 15:11)

1. Rukovoditel' nauchno-metodicheskoy gruppy TSentral'nogo
nauchno-issledovatel'skogo instituta stroitel'nykh konstruksiy.
(Construction industry)

ZEL'DIN, M.Z.

Institute of Structural Design. Izv.ASiA no.3:120-121 '62.
(MIRA 15:11)

1. Rukovoditel' nauchno-metodicheskogo sektora Instituta stroitel'-
nykh konstruksiy Akademii stroitel'stva i arkhitektury SSSR.
(Construction industry)

ZFL'DIM, M.Z. --

"An Experimental Investigation of the Principal
Physicomechanical Properties of Acid-Resisting Coatings
of Basalt Glass and Its Elements." Cand Tech Sci,
Central Sci Res Inst of Industrial Structures, TsNIPS,
13 Oct 54. (VM, 4 Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

ZELDIN, N. O., Eng.

USSR

"Air Baths For Evaporation"

Ogneupory, No. 3, 1948

183T60

ZEL'DIN, N. O.

USSR/Engineering - Refractories, Raw
Materials

Jun 51

"Concerning Utilization of Clays From Suvorovo De-
posits," N. O. Zel'din, Domodedovo Refractory Plant

"Ogneupory" No 6, pp 258, 259

Effective Feb 50, new specification: "Refractory
Clays of Suvorovo Deposit, TVO-17-50." New class-
ification of clays required development of different
methods for their use. Investigations proved clays
of Suvorovo deposits are good raw materials for re-
fractories despite certain deficiencies. Gives
characteristics, required by new specification, and
physicochem indexes of refractories.

LC

183T60

ZELDIN, N.O.

Zeldin, N. O., and Balyuk, S. T. RAPID ANALYSIS OF
SILICA BRICK AND QUANTITIES. *Uchenyye Zapiski*, 8, 1975-76
(1976). The method is based on treating the sample with
HF in the presence of HNO_3 . The analysis takes 2.0 to
2.5 days.

8

ZEL'DIN, N.O.

C
UNFIRED MUFFLES FOR LABORATORY ELECTRIC OVENS, N. O. Zel'din. Osnovnyy, 11 [1] 39 (1946). -- The wooden shape is covered with cardboard sheet, and the spiral is arranged on the surface of the cardboard. The spiral is then covered with a thick grog mass consisting of 80% fine grog (0.5-mm. sieve openings) and 20% refractory clay to give a wall of the desired thickness. The muffle and cardboard are removed from the wooden shape and the cardboard is carefully pulled out. The muffle is dried at room temperature for 1 to 2 days, in a drying oven for 5 to 6 hr. and on a electric plate for 5 to 6 hr. The muffle is included in the circuit and is thus "self" fired. NOTE: The editors recommend the addition of 5 to 10% wood charcoal (0.5 to 2mm.) to the thick grog mass. B.Z.K.

ZELDIN, N. O.

Zeldin, N. O., and Balyuk, S. T. DOLOMITE ANALYSIS.
Ogneupory, 8 [5-6] 331-35 (1940).--The suggested chemical analysis of dolomite is based upon the determination of MgO by the oxyquinoline method and of SiO_2 by the gelatin method.

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8

ZELDIN, N.O.

Zeldin, N.O., and Hozay, S. (1940). Determination of titanium dioxide in refractory materials. *Anal. Chem.* 12, 111-112. (1940). Determination of titanium dioxide in refractory materials. The method consists of the photometric determination against standard titanium dioxide solution. There is an accuracy within 0.1% in material containing about 5% titanium dioxide.

ZEL'DIN, N. O:

UNFIRED MUFFLES FOR LABORATORY ELECTRIC OVENS. N. O. Zel'din. *Ognyopory*, 11 [1] 39 (1946). -- The wooden shape is covered with cardboard sheet, and the spiral is arranged on the surface of the cardboard. The spiral is then covered with a thick grog mass consisting of 80% fine grog (0.5-mm. sieve openings) and 20% refractory clay to give a wall of the desired thickness. The muffle and cardboard are removed from the wooden shape and the cardboard is carefully pulled out. The muffle is dried at room temperature for 1 to 2 days, in a drying oven for 5 to 6 hr., and on a electric plate for 5 to 6 hr. The muffle is included in the circuit and is thus "self" fired. NOTE: The editors recommend the addition of 5 to 10% wood charcoal (0.5 to 2mm.) to the thick grog mass. E.Z.K.

ZELDIN, N. O.

AUTHOR INDEX

REF ID: A67173

Zeldin, N. O., and Balyok, S. T. TITANIUM DIOXIDE
IN REFRACTORY MATERIALS. *Zhurnal* 196, 12, 157-58
(1970).--Details are given of a novel method used for the
determination of titanium dioxide in refractory materials.
The method consists of the photocolometric comparison
against standard titanium dioxide solutions. There is an
accuracy within 0.1% in materials containing about 5%
titanium dioxide.

Izeldin, N. O., and Balyuk, S. T. DOLOMITE ANALYSIS.
Ogneupory, 8 [5-6] 351-35 (1940). The suggested chemi-
cal analysis of dolomite is based upon the determination of
MgO by the oxyquinoline method and of SiO_2 by the gela-
tin method.

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UNFIRED MUFFLES FOR LABORATORY ELECTRIC OVENS. M. O. Zel'din. OZHESUDROYE, 11 [1] 39 (1946). — The wooden shape is covered with cardboard sheet, and the spiral is arranged on the surface of the cardboard. The spiral is then covered with a thick grog mass consisting of 80% fine grog (0.5-mm. sieve openings) and 20% refractory clay to give a wall of the desired thickness. The muffle and cardboard are removed from the wooden shape and the cardboard is carefully pulled out. The muffle is dried at room temperature for 1 to 2 days, in a drying oven for 5 to 6 hr., and on a electric plate for 5 to 6 hr. The muffle is included in the circuit and is thus "self" fired. NOTE: The editors recommend the addition of 5 to 10% wood charcoal (0.5 to 2mm.) to the thick grog mass. B.Z.K.

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<p>CA</p> <p>19</p> <p>Maped analysis of silica brick and quartzites. N. O. Zeldin and S. T. Bulynk. <i>Ozashcherye</i> 8, 395-8(1940); cf. C. A. 35, 1727.—The method is based on treating the sample with HF in the presence of HNO₃. The analysis takes 2.0-2.5 days. R. R. Stefanowsky</p>																			
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<p><i>BC</i></p> <p><i>218. Laboratory air pump. N. O. Eklund (Lund. Lab. 1940, p. 1148-1149). -- Air current gas burners etc. can be produced by means of a ventilator. I. I. II.</i></p>																			
<p>ASD-51A METALLURGICAL LITERATURE CLASSIFICATION</p>																			
<p>RECORDS DIVISION</p>										<p>RECORDS DIVISION</p>									
<p>RECORDS DIVISION</p>										<p>RECORDS DIVISION</p>									

COMMON ELEMENTS										COMMON VARIABLE METALS									
1ST AND 2ND COLUMNS										3RD AND 4TH COLUMNS									
<p>ca</p>										<p>7</p>									
<p>Determination of titanium in quartzites. N. O. Zeldin and Z. V. Ogur. <i>Ognesopory</i> 6, 1703-3(1038). Fuse the sample with $K_2S_2O_8$, ext. the melt with boiling water, filter, dissolve the residue in 7.5 N H_2SO_4, and in the resulting soln. det. the Ti colorimetrically with H_2O_2. E. E. Stefanowsky</p>																			
<p>ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION</p>																			
<p>1ST COLUMN</p>										<p>2ND COLUMN</p>									
<p>3RD COLUMN</p>										<p>4TH COLUMN</p>									

CA

19

Utilization of Suvorov clays. I. P. Kirsanov and N. O. Zel'diya. *Ogneupory* 15, No. 1, 44-5 (1950).—These clays are not uniform and before the last war were not used extensively in the manuf. of refractories. Semidry pressed, class B brick of satisfactory quality are now made from $\frac{1}{4}$ semiacid clay, $\frac{1}{4}$ basic clay, and $\frac{1}{2}$ Chasov-Yar semiacid clay. Grog (40%) is made by briquetting clays in the same ratios. Grog and brick are fired at 1300-1320°. B. Z. Kamich

COMMON ELEMENTS										COMMON VALUABLES									
OPEN										CLOSED									
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169 MORE RAPID ANALYSIS OF DOLOMITE.--N. O. Zeldin and S. F. Halyook (<i>Ogneupory</i> , 8, 334, 1940). Trials of the oxyquinoline method for the determination of MgO, and of the gelatine method for SiO ₂ , have confirmed the reliability of these methods.																			
ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION										ESTABLISHED									
1ST AND 2ND GROUPS										3RD AND 4TH GROUPS									
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111 AND 120 CATEGORIES										PROCESSING AND PROPOSING INDEX										120 AND 210 CATEGORIES									
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<p>Determination of titanium dioxide in refractory materials. N. O. Zel'din and S. T. Balyuk. <i>Zavodskaya Lab.</i> 12, 787-8(1946).—The method consists in photocolometric comparison with standard TiO_2 solns. For clay and prog, fuse 0.6 g. of the finely ground sample in a Pt crucible for 20-25 min. with 3 g. of Na_2CO_3, cool, ext. with water, dil. to 150-200 ml., boil for 30 min., filter, wash the ppt. on the filter thoroughly with distil. H_2O, dissolve in 60 ml. of 20% H_2SO_4, filter until entirely clear, transfer to a measuring flask, add 10 ml. of 3% H_2O_2, and add distil. H_2O to 200 ml. For silica brick or quartzite, treat 0.35 g. of the sample in a Pt crucible with 6 ml. of HF and 6 drops of concd. H_2SO_4, evap. the contents of the crucible to dryness, fuse the residue on a small flame with 2 parts of $K_2S_2O_8$, dissolve the melt by heating in 20% H_2SO_4 until clear, transfer to a 200-ml. measuring flask, add 10 ml. of 3% H_2O_2, and add water to the mark. In samples contg. up to 1% TiO_2, the accuracy of the photocolometric method exceeds considerably that of the visual method; at higher TiO_2 contents the two methods are of equal accuracy. Accuracy varied within 0.04-0.08% in samples contg. up to 2% TiO_2, and within 0.04-0.12% in samples contg. 5.0-5.5% TiO_2. W. R. Henn</p>																													
<p>ABR-51A METALLURGICAL LITERATURE CLASSIFICATION</p>																													
<p>SECTION SYMBOLS</p>										<p>SECTION MAP ONLY ONE</p>										<p>SECTION SYMBOLS</p>									
<p>SECTION 1</p>										<p>SECTION 2</p>										<p>SECTION 3</p>									

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AUTHOR INDEX										SUBJECT INDEX										CLASSIFICATION										OTHER									
<p><i>R</i></p> <p>Zeldin, N. O., and Baljuk, S. T. DOLOMITE ANALYSIS. <i>Ogneupor</i>, 8 [5-6] 334-35 (1940).—The suggested chemical analysis of dolomite is based upon the determination of MgO by the oxyquinoline method and of SiO₂ by the gelatin method.</p>																																							

1ST AND 2ND LETTER																										3RD AND 4TH LETTER																										5TH AND 6TH LETTER																									
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<p>Zel'din, N. O., and Belyuk, S. I. RAPID ANALYSIS OF SILICA-BRICK AND QUARTZITES. <i>Ognepevy</i>, 8, 395-98 (1940).—The method is based on treating the sample with HF in the presence of HNO₃. The analysis takes 2.0 to 2.5 days.</p>																																																																													

1ST AND 3RD LETTER																										2ND LETTER										3RD AND 4TH LETTER										MATERIALS INDEX									
AUTHOR INDEX																										NONCLASSIFIED LITERATURE CLASSIFICATION										V.L.S. A METALLURGICAL LITERATURE CLASSIFICATION										COMMON ELEMENTS									
Zeldin, N. O., and Baiyuk, S. T. TITANIUM DIOXIDE IN REFRACTORY MATERIALS. <i>Zavodskaya Lab.</i> , 12, 757-58 (1946).—Details are given of a novel method used for the determination of titanium dioxide in refractory materials. The method consists of the photocolometric comparison against standard titanium dioxide solutions. There is an accuracy within 0.1% in materials containing about 5% titanium dioxide.																																																							

1ST AND 2ND CATEGORIES

PROCESSING AND PROPERTIES INDEX

CA

1

Laboratory water baths for evaporation. N. O. Zeldin²³ and L. A. Getzel. *Zvezdnyye Lab.* 9, 1349 (1940); *Chem. Zvest.* 1942, 11, 2205. -- In order to be able to heat the baths both electrically and with a gas or alc. flame, 2 elec. heating units consisting of Ni-Cu wire wound on porcelain within Cu casings were placed in each bath in such a manner that an open end of the Cu casing extended outside the bath. The baths were painted with asphalt varnish every 10-15 days as a protection against attack by acid. M. G. Moore

COMMON ELEMENTS

COMMON VARIABLE ELEMENTS

INTERNAL INDEX

ASD-ELA METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBLIVE

SECONDARY

RECORD WITH ONLY ONE

RELATIONS

FROM ONLY ONE

1ST AND 2ND CATEGORIES

ZEL'DIN, N. O.

"Air Baths for Evaporation," Ogneupory, No. 3, 1948. Engr., -cl942-.

Bc

B-W-4

Properties of solutions of casein. H. K. DILL
(Trans. Am. Chem. Soc., 1937, 4, 876-878).—Methods of
preparing various solutions are described. The
of the various reagents according to the solvents used,
is the order $\text{NaOH} > \text{NH}_3 > \text{Na}_2\text{S}_2\text{O}_8 + \text{Na}_2\text{CO}_3 >$
 $\text{Na}_2\text{CO}_3 > \text{Na}_2\text{SO}_4$. The flocculative action of casein
diminishes in the order $\text{FeSO}_4 > \text{Al}(\text{SO}_4)_3 > \text{BaCl}_2$
 $> \text{CaCl}_2 = \text{MgSO}_4 > \text{NaCl}$. Partly digested casein
can be regenerated by mild hydrolysis at low temp.
($< 100^\circ$). R. T.

ADDITIONAL LITERATURE CLASSIFICATION

RESEARCH DIVISION

LIBRARY OF CONGRESS

ZEL'DIN, S., nachal'nik.

Streetcar modernization in Kazan'. Zhil.-kom.khoz. vol.3 no.9:13-14 S '53.
(MLBA 6:9)

1. Tekhnicheskii otdel Kazanskogo tramvayno-trolleybusnogo upravleniya.
(Kazan'--Electric railroads--Cars) (Cars--Electric railroads--Kazan')

PROCESS AND PROPERTIES INDEX																									
1ST AND 2ND ORDERS													3RD AND 4TH ORDERS												
<p><i>CA</i></p> <p>The properties of casein and its solutions. S. Zeldin. <i>Malyarovsk Delo</i> 1932, No. 10, 13-18; <i>Chem. Zvesti-</i> 1, 3867-8; cf. <i>C. A.</i> 26, 2807. —A critical discussion of the methods of investigation of casein. Expts. on the effect of borax on the viscosity of casein solns. indicated that the viscosity was changed by this substance, the extent depending upon the amt. of borax used and the duration of storage. In spite of certain difficulties, however, borax is advantageous for dissolving casein. The viscosity but not the adhesive power of solns. of casein in alkalies increases with time. The lowest coagulation limit (the smallest amt. of the coagulating agent required for coagulation) was detd. for borax-casein solns. The following series is in the order of decreasing coagulation power: FeSO_4, CaSO_4, $\text{Al}(\text{SO}_4)_3$, FeCl_3, ZnCl_2, CaSO_4, CaCl_2, BaSO_4, PbSO_4, Na_2SO_4, NaCl, NaOAc. $\text{Fe} > \text{Al}$, $\text{Zn} > \text{Ca} > \text{Ba}$; and $\text{SO}_4 > \text{Cl}$. Coagulation is caused by as little as 0.16-0.2% FeSO_4. Phenol is best for preserving casein solns. If a casein of slight acidity and low fat content, to which has been added phenol, is dissolved in borax, a soln. is obtained which is stable over 8 mos. The viscosity and adhesive power decrease, however, whether the soln. is stored in open or closed vessels. M. G. M.</p>																									
<p>ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									
<p>REGIONAL INDEX</p>																									

ZELDIN, S.P.

Casein priming base for wood. S. P. Zeldin. Org.
Chem. Ind. (U. S. S. R.) 5, 64(1938).—A mixt. of 100 g.
dry casein, 3.5-4.5 g. NaOH, 4.5-6.5 g. PhOH, 300-
600 g. pigments (inorganic and org.) and 20-40 g. alizarin
oil was used as a prime base for oil and lacquer paints on
wood. It prevents blistering and swelling of veneer
finish, dries quickly and reduces the required no. of varnish
coatings. Char. Blanc